HANDLING INPUT MULTIPLEXATING CONTROLLERS

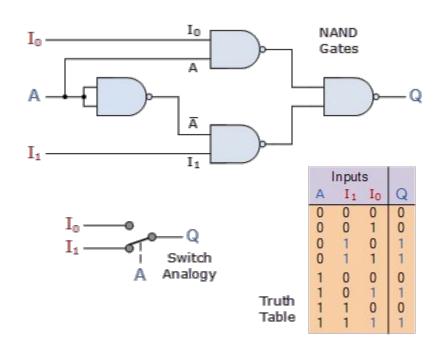
Julio Sánchez Cuenca

Index

- 1. Multiplexing
- 2. InputProcessor
- 3. InputMultiPlexer
- 4. How does InputProcessor work?
- 5. How does InputMultiPlexer work?
- 6. What Purpose does it have?

MULTIPLEXING

Multiplexing is the generic term used to describe the operation of sending one or more analogue or digital signals over a common transmission line at different times or speeds.



INPUTPROCESSOR

An InputProcessor is used to receive input events from the keyboard and the touch screen (mouse on the desktop).





INPUTMULTIPLEXER

The InputMultiplexer will hand any new events to the first InputProcessor that was added to it. If that processor returns false from the method invoked to handle the event, this indicates the event was not handled and the multiplexer will hand the event to the next processor in the chain.

BUT HOW DOES INPUTPROCESSOR WORK?

You must create a class that implements InputProcessor, which will implement these methods that control the entries of different kinds.

Modifier and Type	Method and Description
boolean	keyDown(int keycode) Called when a key was pressed
boolean	keyTyped(char character) Called when a key was typed
boolean	keyUp(int keycode) Called when a key was released
boolean	mouseMoved(int screenX, int screenY) Called when the mouse was moved without any buttons being pressed.
boolean	<pre>scrolled(int amount) Called when the mouse wheel was scrolled.</pre>
boolean	touchDown(int screenX, int screenY, int pointer, int button) Called when the screen was touched or a mouse button was pressed.
boolean	touchDragged(int screenX, int screenY, int pointer) Called when a finger or the mouse was dragged.
boolean	touchUp(int screenX, int screenY, int pointer, int button) Called when a finger was lifted or a mouse button was released.

BUT HOW DOES INPUTMULTIPLEXER WORK?

In the class that implements ApplicationListener, we will create the InputMultiplexer and add the InputProcessor that we want, as if it were a list. The InputMultiplexer will go through the InputProcessor until some event returns true, then it will stop its search.

```
InputMultiplexer multiplexer = new InputMultiplexer();
multiplexer.addProcessor(new MyUiInputProcessor());
multiplexer.addProcessor(new MyGameInputProcessor());
Gdx.input.setInputProcessor(multiplexer);
```

WHAT PURPOSE DOES IT HAVE?

It can be used, for example, in first-person shooter games, to separate the use of the keyboard and the mouse in different InputProcessors. So to be able to handle the movement of the character, as well as move the camera of it.